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NOV 18 2004

Application No. 09/917,964
Supplemental Amendment dated November 18, 2004

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

35. (CURRENTLY AMENDED) A method for producing a corn plant comprising the steps of:

(a) co-cultivating an immature embryo ~~from said tissue~~ at a temperature of ~~about 16°C to about~~ between 18°C to 21°C with *Agrobacterium* capable of transferring at least ~~one gene~~ one DNA sequence of interest to said tissue to produce an infected embryo;

(b) culturing the infected embryo on a medium comprising an antibiotic to produce a resulting tissue;

(c) culturing said resulting tissue on a medium comprising a selective agent and an antibiotic;

(d) selecting transformed tissue having Type II callus; and

(e) regenerating transgenic plants from said Type II callus.

36. (PREVIOUSLY PRESENTED) The method of claim 35, wherein said temperature is about 19°C.

37. (CURRENTLY AMENDED) A method for producing a transformed corn plant comprising the steps of:

(a) co-cultivating an immature embryo from said tissue with *Agrobacterium* capable of transferring at least ~~one genetic factor to said tissue~~ DNA sequence of interest to produce an infected embryo, wherein said *Agrobacterium* is taken from *Agrobacterium* stock about 0.5 to about 5 days after rescue from frozen glycerol stocks;

(b) culturing the infected embryo to initiate callus on a medium comprising an antibiotic;

(c) culturing the resulting callus tissue on a medium comprising a selective agent and an antibiotic;

(d) selecting transformed callus tissue having Type II callus; and

(e) regenerating transgenic plants from said Type II callus.

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38. (CURRENTLY AMENDED) A method for transforming a line of corn comprising the steps of:

(a) co-cultivating an immature embryo from said line with *Agrobacterium* capable of transferring at least ~~one gene~~ one DNA sequence of interest to tissue of said line to produce an infected embryo;

(b) culturing the infected embryo to initiate callus on a medium comprising an antibiotic and a compound selected from the group consisting of glucose, maltose, lactose, sorbitol and mannitol;

(c) culturing the resulting callus tissue on a medium comprising a selective agent and an antibiotic;

(d) selecting transformed callus tissue comprising growing Type II callus; and

(e) regenerating transgenic plants from said growing Type II callus.

39-40. (CANCELED)

41. (PREVIOUSLY PRESENTED) The method of claim 38, wherein the concentration of said compound is from 5 g/L to 30 g/L.

42. (CURRENTLY AMENDED) A method for producing a transformed corn plant using *Agrobacterium* comprising the steps of:

(a) initiating co-cultivation of an immature embryo from said tissue with *Agrobacterium* capable of transferring at least ~~one gene~~ one DNA sequence of interest to said tissue to produce an infected embryo;

(b) applying heat shock treatment during said co-cultivation;

(c) culturing the infected embryo to initiate callus on a medium comprising an antibiotic and glucose;

(d) culturing the resulting callus tissue on a medium comprising a selective agent and an antibiotic;

(e) selecting transformed callus tissue having Type II callus; and

(f) regenerating transgenic plants from said Type II callus.

43. (CURRENTLY AMENDED) A method for transforming a line of corn using *Agrobacterium* comprising the steps of:

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- (a) co-cultivating an immature embryo from said line with *Agrobacterium* capable of transferring at least ~~one gene~~ one DNA sequence of interest to tissue of said line to produce an infected embryo;
 - (b) culturing the infected embryo to initiate callus on a medium comprising an antibiotic;
 - (c) culturing the resulting callus tissue on a medium comprising a selective agent ~~or a combination of~~ and an antibiotic ~~and selective agent~~;
 - (d) selecting transformed callus tissue comprising growing Type II callus; and
 - (e) regenerating transgenic plants from said Type II callus,
- wherein exposure to said antibiotic is increased over two or more passages on the medium of at least one of step (b) or step (c).